

PAT-NO: JP02001255876A

DOCUMENT-IDENTIFIER: JP 2001255876 A

TITLE: METHOD FOR EXPANDING AND
COMPRESSING MUSICAL SOUND
WAVEFORM SIGNAL IN TIME BASE

DIRECTION

PUBN-DATE: September 21, 2001

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APPL-NO: JP2000069254

APPL-DATE: March 13, 2000

INT-CL (IPC): G10H007/02, G10L021/04

ABSTRACT:

PROBLEM TO BE SOLVED: To compress and expand a
musical sound waveform signal
in the time base direction in a natural form.

SOLUTION: A frequency band separation part 12 converts time-series waveform data presenting time variation of the musical sound waveform signal stored in a waveform data storage part 10 into each frequency band component waveform data of a high frequency band, a middle frequency band, and a low frequency band, and stores them in buffer parts 13a, 13b, 13c, respectively. Time base control parts 14a, 14b, 14c are controlled by a control part 20, and divide each frequency band component waveform data into time frame data of a prescribed time length in each frequency band, and rearrange each time frame data according to an inputted expansion/compression ratio (target tempo/ original tempo) to output them, respectively. A mixer part 15 mixes the rearranged and outputted waveform data and output them.

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